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tem and the special senses. It is to be hoped that before issuing a second edition, which will probably be called for, the author will re-apportion his space and develop more fully these latter subjects.

The book is fully up to date in its facts. As to point of view it represents, like nearly all text-books of the physiology of man, that of conventional or organ physiology, rather than that of the cell.

FREDERIC S. LEE.

COLUMBIA UNIVERSITY.

Analyses Electrolytiques. Par AD. MINET. Masson et Cie, Paris.

The first three pages of the first chapter of this little volume aim to be historical, but in the latter respect are so incomplete that they are really misleading. The subsequent pages, devoted to the sources of electricity, the measurement of current intensity, a description of the different apparatus used in electrolytic analysis and electrolytic constants, are much more satisfactory and really praiseworthy.

The second chapter pretends to consider electrolysis from a qualitative standpoint, but is so meager in its details that that feature of it would probably have better been omitted. The quantitative determination of non-metals (the halogens, nitrogen in nitrates and sulphur in sulphides) is also considered.

The third chapter relates to the quantitative determination of individual metals. In the main the procedures are similar to those already described in existing works upon electro-chemical analysis. There is no good reason to omit the double cyanide of mercury and potassium in speaking of proper electrolytes for the determination of that metal. Under iron reference is made to the 'Procede de Drow,' meaning of course our own Dr. Drown. The author seems to have been careless in regard to the correctness of names, for there are numerous oversights of this character scattered throughout the entire book. At times there seems to have been an effort made to give due credit to the various workers in this particular field, but oftener there is an absolute neglect as to the origin of the methods.

Had M. Minet ever tried the separation of

copper from silver electrolytically, the reviewer sincerely doubts whether he would have recommended the suggestion given on page 134. Those experienced in this direction know that to precipitate out the silver as oxalate, wash it, etc., is a vexing operation. Why not simply add an excess of alkaline cyanide to the solution of the two metals and electrolyze at 65°C? The separation is then complete and rapid. Other methods are not above criticism, but it is not the purpose of the reviewer to find fault. His sole desire is to see the best given to those who may undertake to do work in this field.

The fifth chapter gives in considerable detail the work of Hollard in the application of electrolytic methods to the analysis of alloys, and is very meritorious in every respect. One hundred and seventy-six pages comprise the entire volume, which no doubt will serve well to give one, not especially interested or conversant with this field of investigation, a very good idea of what is being done, but the writer questions whether more than that can be fairly claimed for this publication.

EDGAR F. SMITH.

BOOKS RECEIVED.

Observations taken at Dumraon Behar, India, during the Eclipse of the 22d of January, 1898. REV. V. DE CAMPIGNEULLES. New York, London and Bombay. 1899. Pp. xi + 194 and thirteen plates.

The North American Slime-Moulds. THOMAS H. MACBRIDE. New York and London, The Macmillan Company. 1899. Pp. xvii + 231 and eighteen plates. \$2.25.

Social Laws, an Outline of Sociology. G. TARDE, translated by HOWARD C. WARREN. New York and London, The Macmillan Company. 1899. Pp. xi + 213.

Darwinism and Lamarckism. FREDERICK WOLLASTON HUTTON. New York and London, G. P. Putnam's Sons. 1899. Pp. x + 226.

SCIENTIFIC JOURNALS AND ARTICLES.

UNDER the administration of Dr. von Ihering, the Museum of Sao Paulo, Brazil, is accomplishing much scientific work while at the same time rapidly enlarging its study and exhibition collections. The third volume of its *Revista*, contains a posthumous paper by Dr. Fritz Mueller on the 'Marine Fauna of the Coast of Santa

Catherine,' descriptions of new Coccids, by T. D. A. Cockerell and A. Hempel, and 'Contributions to our Knowledge of the Spiders of Sao Paulo,' by W. J. Moenkhaus. A. S. Woodward describes several new fishes from the bituminous schists of Taubaté, interesting from the fact that they belong to existing genera, and Ricardo Krone gives an account of 'the Limestone Caves of Iporanga.' The major part of the volume is devoted to a systematic list of 'the Birds of Sao Paulo,' by Dr. von Ihreing, intended as a working basis for the study and discussion of the ornithology of that State. Dr. von Ihering admits 590 species. An alphabetical index of the common names is appended which should be of good service to those interested in the avifauna of Brazil. The volume closes with a bibliography of current works on natural history and anthropology relating to Brazil. Dr. von Ihering records the finding of a dead specimen of *Spheniscus magellanicus* on the coast of the island of Santo Amaro off the coast of Brazil, in about latitude 24° S. A previous example was taken still farther north at Sao Sebastiao island, 23° S.

American Chemical Journal for September, 1899, contains the following articles:

'On alkyl malonic nitriles and their derivatives,' by J. C. Hessler.

'On the phenylhydrazones of benzoin,' by A. Smith.

'Thermal effects of the dilution of some salts,' by F. P. Dunnington and T. Hoggard; 'Preservation of Hübl's reagent,' by R. Bolling; 'Dehydration of crystals of sodium phosphate,' by T. C. Whitlock and C. E. Barfield.

'Examination of a Sandstone from Augusta County, Virginia,' by W. W. Miller, Jr.

'Solubility of lead sulphate in ammonium acetate,' by J. C. Long.

'Analysis of Smithsonite from Arkansas,' by W. W. Miller, Jr.

'Desulphones and ketosulphones,' by E. P. Kohler and Margaret B. MacDonald.

'The reaction between sulphone chlorides and metallic derivatives of ketonic esters,' by E. P. Kohler and Margaret B. MacDonald.

J. E. G.

The Osprey for September opens with a brief article on 'Familiar Birds of Honolulu,' by Milton S. Ray, followed by 'Eight Days Among the Birds of Northern New Hampshire,' contributed by John N. Clark, and dealing mainly with the nesting habits of the many species observed. Four short papers deal mostly with various warblers and then, under the head of Notes for 'Observation of Habits of Birds,' Ernest Seton Thompson gives a list of the points that should be particularly noted. F. H. Knowlton and W. F. Henninger contribute letters on the question of excessive egg collecting. Numerous interesting notes and reviews of current literature complete the volume.

THE only scientific and philosophical articles which appear in the October *Monist* are: (1) 'Psychology and the Ego,' by Professor C. Lloyd Morgan, Bristol, England; (2) 'The Man of Genius,' by Professor G. Sergi, Rome, Italy; and (3) 'A Decade of Philosophy in France,' by Lucien Arréat. The remainder of the contents is devoted to a discussion of the Bible, by Professor C. A. Cornill, of Breslau, Germany, Dr. W. Henry Green, of Princeton, N. J., and Dr. Paul Carus.

Appletons' Popular Science Monthly for October, completing its fifty-fifth volume, has as a frontispiece a portrait of the late William Pepper, and includes an article narrating his great activity for the public institutions of Philadelphia and especially the University of Pennsylvania. The number contains an account of the Columbus meeting of the American Association, by Professor D. S. Martin, and a number of other articles including two on the administration of charities, by Bishop Potter and Comptroller B. S. Coles.

SOCIETIES AND ACADEMIES.

THE WASHINGTON BOTANICAL CLUB.

THE eighth regular meeting was held August 2, 1899, a paper by Dr. Gerrit S. Miller, of the U. S. National Museum, on the species of *Apocynum* occurring within the District of Columbia, was presented by Mr. Pollard. Dr. Miller recognizes three new species in addition to the already known *A. androsaemifolium* L., *A. cannabinum* L., *A. medium* Greene and *A.*